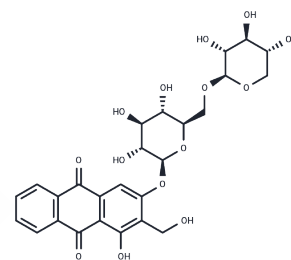


Lucidin primeveroside

Chemical Properties

CAS No. :	29706-59-0
Formula:	C ₂₆ H ₂₈ O ₁₄
Molecular Weight:	564.49
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Lucidin primeveroside (Lucidin 3-O-primeveroside) is a natural product isolated from the root powder of akane (Rubia akane) and can be used as a coloring agent and a food pigment. Lucidin primeveroside can be metabolically converted to genotoxic compound Lucidin in mice.
Targets(IC50)	Topoisomerase
In vitro	Lucidin primeveroside showed any antifeedant activity against the carpet beetle[1].
In vivo	In mice, Lucidin primeveroside (0.3% in the diet) induces Lucidin-specific DNA adduct formation and increases mutation frequencies[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7715 mL	8.8576 mL	17.7151 mL
5 mM	0.3543 mL	1.7715 mL	3.543 mL
10 mM	0.1772 mL	0.8858 mL	1.7715 mL
50 mM	0.0354 mL	0.1772 mL	0.3543 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Antifeedant activity of an anthraquinone aldehyde in *Galium aparine* L. against *Spodoptera litura* F. *Phytochemistry*. 2002 May;60(2):163-6.

Ishii Y, et, al. Effects of inhibition of hepatic sulfotransferase activity on renal genotoxicity induced by lucidin-3-O-primeveroside. *J Appl Toxicol*. 2019 Apr;39(4):650-657.

Yockey OP, et, al. Mechanism of Error-Free DNA Replication Past Lucidin-Derived DNA Damage by Human DNA Polymerase κ . *Chem Res Toxicol*. 2017 Nov 20;30(11):2023-2032.

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